

JavaScript: The Definitive Guide (Third edition). By D. Flanagan. O'Reilly, Sebastopol, CA. (1998). 776 pages. \$39.95.

Contents:

Preface. 1. Introduction to JavaScript. I. Core JavaScript. 2. Lexical structure. 3. Data types and values. 4. Variables. 5. Expressions and operators. 6. Statements. 7. Functions. 8. Objects. 9. Arrays. 10. Pattern matching with regular expressions. 11. Further topics in JavaScript. II. Client-side JavaScript. 12. JavaScript in Web browsers. 13. Windows and frames. 14. The document object model. 15. Events and event handling. 16. Forms and form elements. 17. Dynamic HTML. 18. Saving state with cookies. 19. Compatibility techniques. 20. LiveConnect: JavaScript and Java. 21. JavaScript security. III. Reference. Index.

Methods in Neuronal Modeling: From Ions to Networks (Second edition). Edited by Christof Koch and Idan Segev. MIT Press, Cambridge, MA. (1998). 671 pages. \$60.00.

Contents:

Series foreword. Preface. 1. Kinetic models of synaptic transmission (Alain Destexhe, Zachary F. Mainen and Terrence J. Sejnowski). 2. Cable theory for dendritic neurons (Wilfrid Rall and Hagai Agmon-Snir). 3. Compartmental models of complex neurons (Idan Segev and Robert E. Burke (Appendix by Michael Hines)). 4. Multiple channels and calcium dynamics (Walter M. Yamada, Christof Koch and Paul R. Adams). 5. Modeling active dendritic processes in pyramidal neurons (Zachary F. Mainen and Terrence J. Sejnowski). 6. Calcium dynamics in large neuronal models (Erik De Schutter and Paul Smolen). 7. Analysis of neural excitability and oscillations (John Rinzel and Bard Ermentrout). 8. Design and fabrication of analog VLSI neurons (Rodney Douglas and Misha Mahowald). 9. Principles of spike train analysis (Fabrizio Gabbiani and Christof Koch). 10. Modeling small networks (Larry Abbott and Eve Marder). 11. Spatial and temporal processing in central auditory networks (Shihab Shamma). 12. Simulating large networks of neurons (Alexander D. Protopapas, Michael Vanier and James M. Bower). 13. Modeling feature selectivity in local cortical circuits (David Hansel and Haim Sompolinsky). 14. Numerical methods for neuronal modeling (Michael V. Masecagi and Arthur S. Sherman). References. Contributors. Index.

Partial Differential Equations for Computational Science: With Maple® and Vector Analysis. By David Boustoules. Springer, New York. (1998). \$64.95, sFr 116.50, DM 128.00, öS 935.00 (CD-ROM included).

Contents:

Preface. 1. Introduction. 2. Derivation of the heat equation. 3. The 1-D heat equation. 4. Solution of the 1-D heat problem. 5. Computational analysis. 6. Two-dimensional heat flow. 7. Boundary value problems. 8. 3-D heat flow. 9. Maxwell's equations. 10. Fluid mechanics. 11. Waves in elastic materials. 12. The heat IBVP in polar coordinates. 13. Solution of the heat IBVP in general. Appendices. A. Vector analysis. B. Continuum mechanics. C. Maple reference guide. D. Symbols and tables. References. Index.

Electronic Multimedia Publishing: Enabling Technologies and Authoring Issues. Edited by Fillia Makedon and Samuel A. Rebelsky. Kluwer Academic Publishers, Boston, MA. (1998). 197 pages. \$94.00, NLG 205.00, GBP 62.25.

Contents:

Guest editorial (Fillia Makedon and Samuel A. Rebelsky). MediaWeaver—A distributed media authoring system for networked scholarly workspaces (Sha Xin Wei). ASML: Automatic Site Markup Language (Charles B. Owen and Fillia Makedon). AgT_{Pr}—Towards modality-independent electronic documents (T.V. Raman). Structural queries in electronic corpora (Daniela Rus and James Allan). Obstacles in Web multimedia publishing: Bringing conference proceedings on-line (Peter A. Gloor, Fillia Makedon and Oliver Van Ligtén). Resource-limited hyper-reproductions: Electronically reproducing and extending lectures (James Ford, Fillia Makedon and Samuel A. Rebelsky).

Set Theory: Techniques and Applications, Curacao 1995 and Barcelona 1996 Conferences. Edited by Carlos Augusto Di Prisco, Jean A. Larson, Joan Bagaria and A. R. D. Mathias. Kluwer Academic Publishers, Dordrecht. (1998). 226 pages. \$99.00, NLG 175.00, GBP 59.00.

Contents:

Preface. List of participants. Articles. Forcing axioms (Maxim R. Burke). Large cardinal properties of small cardinals (James Cummings). Countable length Ramsey games (Carl Darby and Richard Laver). Weak forms of the axiom of choice and partitions of infinite sets (Omar De la Cruz and Carlos A. Di Prisco). A taste of proper forcing (Martin Goldstern). Applications of p -functions (Piotr Koszmider). Models as side conditions (Piotr Koszmider). An ordinal partition from a scale (Jean A. Larson). A picaresque approach to set theory genealogy (Jean A. Larson). Recurrent points and hyperarithmetic sets (A.R.D. Mathias). A tree-arrowing graph (E.C. Milner and Saharon Shelah). A hollow shell: Covering lemmas without a core (William J. Mitchell). Partition properties for reals (Carlos H. Montenegro). Combinatorial set theory and inner models (Ernest Schimmerling). Definable ideals and gaps in their quotients (Stevó Todorcevic).